



# AutoTrak Curve System Delivered One-Run Performance in Eagle Ford Well

Baker Hughes drilling system eliminated two rig days compared to average offset wells

## Benefits

- Saved two BHA trips
- Improved ROP
- Drilled all sections in one run
- Eliminated two drilling days

## Well background

- Eagle Ford Shale
- 8¾-in. hole consisting of vertical, curve, and lateral sections exceeding 10,400-ft total footage
- Curve section planned with 8°/100-ft BUR
- Needed to eliminate BHA trips and minimize NPT, while efficiently drilling build and turn profile
- Required to stay within 50-ft lateral window

## Baker Hughes solution and results

- 6¾-in. AutoTrak Curve rotary steerable system
- Baker Hughes drill bit
- Completed all sections in one run
  - Drilled a total of 10,462 ft in 116 drilling hours
  - Used one assembly, saving two BHA trips for changes/adjustments
- Achieved an average on-bottom ROP of 90 ft/hr for the entire well
- Demonstrated precise control while drilling 3D well profile

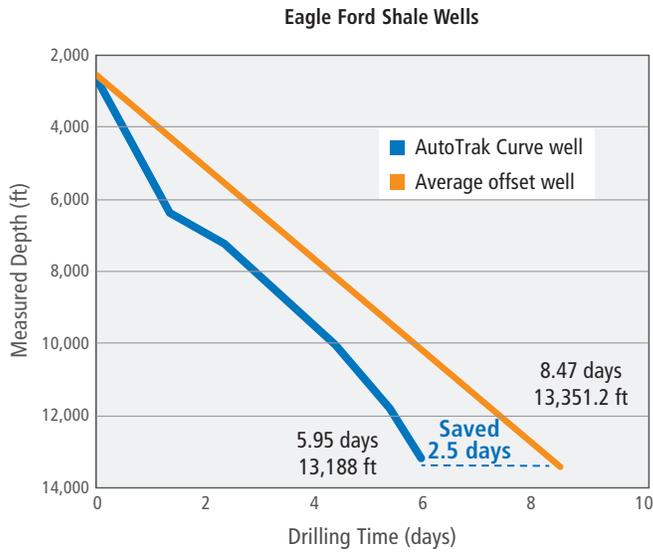


A client operating in the Eagle Ford Shale contacted Baker Hughes to drill a well that consisted of vertical, curve, and lateral sections exceeding 10,400 ft of total footage.

The curve section had an 8°/100-ft buildup rate (BUR), and the client needed to drill the build and turn profile while eliminating trips to change or adjust the bottomhole assembly. The client also wanted to

minimize nonproductive time (NPT) and to stay within a 50-ft lateral window. The client chose to drill the section using the Baker Hughes AutoTrak™ Curve rotary steerable system with a Baker Hughes drill bit.

The AutoTrak Curve system allowed the client to drill out the 9⅞-in. surface casing and subsequently drilled from 2,631 to



13,188 ft in one run for a total footage of 10,462 ft. The AutoTrak Curve system drilled the vertical section of the well and was able to kick off in the correct direction, building to 88° inclination with an 8°/100-ft BUR. Once the curve was landed, the system drilled the entire lateral section. The system maintained an average rate of penetration (ROP) of 90 ft/hr through the vertical, curve, and lateral sections.

The sections were accurately drilled in six rig days, and the AutoTrak Curve system's one-run performance was two days faster than the average for offset wells. With an average spread cost of \$40,000 for this particular rig, the client saved approximately \$80,000 in associated rig operating charges on this job.



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